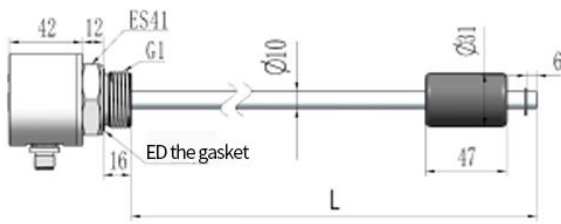
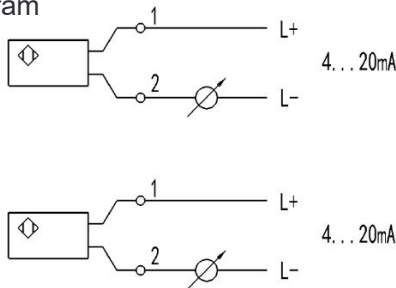




dimension figure



wiring diagram



principle and characteristics

LF500 series integrated temperature liquid level sensor includes a PT100 probe, PT100 resistance changes with temperature, LF500 internal circuit to convert its value into linear analog output; In addition, magnetic induction technology sensor for liquid level measurement, the signal by the rear processing circuit after processing into a standard industrial electrical signal output. Realize the temperature, liquid level double analog output.

technical specification

- ◆ Measurement range: user-defined
- ◆ Measurement medium: corrosive compatible with 304 stainless steel liquid
- ◆ Pressure: 50bar
- ◆ Medium density: $\geq 0.7g/cm^3$
- ◆ Power supply voltage: 12... 30Vdc
- ◆ No-load current consumption: maximum 30mA, 24VDC power supply
- ◆ Current type analog output: $\leq \pm 0.5\%$ range
- ◆ Output type: 4... Can be set to 20 ma
- ◆ load RA: 0.5 KOhm or less
- ◆ Linearity: $\leq 1.5\%$ range
- ◆ Wiring protection: reverse phase, overload, short circuit protection
- ◆ Accuracy: $\leq \pm 0.5\%$ range
- ◆ Stability (annual drift) : $\leq \pm 0.3\%$ range
- ◆ temperature: Temperature measurement range: 0... 100°C (special range can be customized)
- ◆ Ambient temperature: -20... 80 °C
- ◆ materials: Nod case: 304 stainless steel+ Shell: 304 stainless steel Medium contact part: stainless steel 304 Float ball: 304 stainless steel or NBR material (can be customized)
- ◆ Protection grade: IP67
- ◆ Outgoing way: M12X1 connector

Selection table

LF500-	1	A	B	L	S	B	specification
LF500-							LF500 Series Integrated Temperature Level Sensor
	1						1 temperature analog quantity 4-20mA
	2						1 liquid level simulation volume 4-20mA
	3						1 temperature simulation quantity 4-20mA+1 liquid level
		A					Range 0... 100 °C
		B					Range 0... 150°C (optional high temperature float ball)
		C..					Customize the range, e.g. -0... 120°C, selection: C0... 120
			A				Thread connection with external thread
			B				flanged joint
			C				Sanitary chuck connection
			D				Interface thread: G1
			...				Custom thread
				L			Range of liquid level: L= mm (unit)
					S		M12*1 connector (standard with 2 meters wire)
						B	Float material: NBR
						X	Float material: 304 stainless steel
						G	Float material: high temperature resistant
						S	Special customization (corrosion resistance)

* The selection table is only available for parameter selection, and the corresponding code is delivered.